## AMENDMENT TO THE SPECIFICATION

Please insert the Sequence Listing consisting of 4 sheets, provided herewith, into the application. The Sequence Listing is provided, as required, to comply with the requirements of 37 C.F.R. § 1.821 through 1.825. I hereby submit that the Sequence Listing contains no new matter.

## In the Specification:

Please amend the specification on page 16, line 17, through page 17, line 4, to read as follows:

Assay of the truncation mutants proved to be a sensitive and specific screen for the identification of the MAD2/ER beta interaction domain. The interaction domain was identified as encompassing amino acids nucleotides 516 to 622 of ER beta (Fig. 3A). Fig. 3B summarizes the two hybrid protein interaction results. As is shown in Fig. 3B, the ER beta/MAD2 interaction domain is defined by amino acids nucleotides 516 to 641 of ER beta that interact with MAD2 clone EC1. Fig. 3B also shows that slightly larger regions, containing the interaction domain, support the interaction between ER beta and MAD2, while fragments lacking the nucleotides 516-622 amino acid domain of ER beta do not.

Please amend the specification on page 20, lines 3-15, to read as follows:

Thus the GST-fusion protein experiments demonstrate that mERβ is brought down, or associates with, the GST-MAD2 clone and, in the converse experiment, MAD2 is brought down by GST-mERβ. Each case demonstrates the protein-protein interaction. In contrast, the results

shown in Fig. 4C indicate that while GST-mERβ, as expected, brings down ERα <u>alpha</u> (this is a positive control since it is known that these two proteins heterodimerize), GST alone, or GST MAD2, shown in the third and fourth lanes, respectively, do not bring down <u>ER alpha ERα</u>. This result confirms the two hybrid data, i.e. that <u>ER alpha ERα</u> does not interact with MAD2. Fig. 4D, which shows the results of protein-protein interaction studies between MAD2 and ER beta mutants, also confirms the two hybrid data which identified the MAD2/ER beta interaction domain as including <u>amino acids nucleotides</u> 516-622 of ER beta. Other experiments indicate that MAD2 does not interact with RAR or RXR (two steroid hormone families members), further underscoring the specificity of the MAD2/ER beta interaction.